STN - Structure Search 9-4-04

=> d ibib abs hitstr 1-7

L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:913040 CAPLUS
DOCUMENT NUMBER: 139:375018
TITLE: Combinations containing proton pump inhibitors for the treatment of airway disorders
INVENTOR(S): Hanauer, Guido; Kromer, Wolfgang; Postius, Stefan; Simon, Wolfgang-Alexander
PATENT ASSIGNEE(S): Altana Pharma A.-G., Germany
SOURCE: PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003094967	A2	20031120	WO 2003-EP4653	20030503
WO 2003094967	A3	20040401		

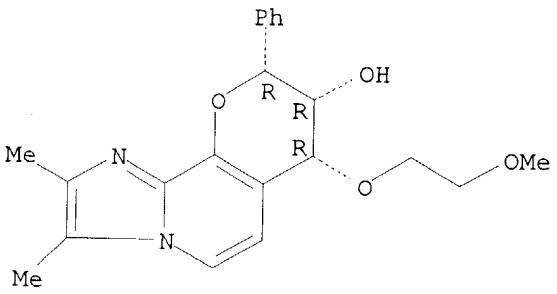
W: AE, AL, AU, BA, BR, CA, CN, CO, CU, DZ, EC, GE, HR, ID, IL, IN, IS, JP, KR, LT, LV, MA, MK, MX, NO, NZ, PH, PL, SG, TN, UA, US, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR

PRIORITY APPLN. INFO.: EP 2002-10305 A 20020507

AB A method for treating airway disorders comprises a reversible proton pump inhibitor and an airway therapeutic to be taken simultaneously (as a fixed oral combination) or in succession (one directly after the other or else within a relatively large time span). The reversible proton pump inhibitor is, e.g., Soraprazan or its salt, and the airway therapeutic is, e.g., Ciclesonide.

IT **362525-74-4**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oral combination of reversible proton pump inhibitors and airway therapeutics for treatment of airway disorders)
RN 362525-74-4 CAPLUS
CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridin-8-ol, 8,9-dihydro-7-(2-methoxyethoxy)-2,3-dimethyl-9-phenyl-, (7R,8R,9R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:875288 CAPLUS
DOCUMENT NUMBER: 139:364931
TITLE: Preparation of nitrosated tricyclic imidazopyridine derivatives as gastric secretion-inhibitor and

anti-inflammatory and antibacterial agents

INVENTOR(S): Buhr, Wilm; Senn-Bilfinger, Joerg; Zimmermann, Peter Jan

PATENT ASSIGNEE(S): Altana Pharma Ag, Germany

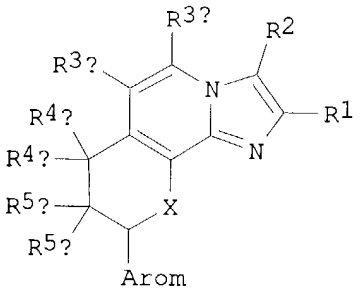
SOURCE: PCT Int. Appl., 62 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003091253	A1	20031106	WO 2003-EP4134	20030422
W: AE, AL, AU, BA, BR, CA, CN, CO, CU, DZ, EC, GE, HR, ID, IL, IN, IS, JP, KR, LT, LV, MA, MK, MX, NO, NZ, PH, PL, SG, TN, UA, US, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.:			EP 2002-9104	A 20020424

OTHER SOURCE(S): MARPAT 139:364931

GI



I

AB The invention relates to nitrosated tricyclic imidazopyridines (e.g. 7,8,9,10-tetrahydroimidazo[1,2-h][1,7]naphthyridine) of formula (I) [R1 = H, C1-4 alkyl, C3-7 cycloalkyl, C3-7 cycloalkyl-C1-4 alkyl, C1-4 alkoxy, C1-4 alkoxy-C1-4 alkyl, C1-4 alkoxycarbonyl, C2-4 alkenyl, C2-4 alkynyl, fluoro-C1-4 alkyl, hydroxy-C1-4 alkyl; R2 = H, C1-4 alkyl, aryl, C3-7 cycloalkyl, C3-7 cycloalkyl-C1-4 alkyl, C1-4 alkoxycarbonyl, hydroxy-C1-4 alkyl, halogen, C2-4 alkenyl, C2-4 alkynyl, fluoro-C1-4 alkyl, cyanomethyl, etc.; R3a, R3b = H, halogen, fluoro-C1-4 alkyl, C1-4 alkyl, C2-4 alkenyl, C2-4 alkynyl, CO2H, -CO-C1-4 alkoxy, hydroxy-C1-4 alkyl, C1-4 alkoxy-C1-4 alkyl, C1-4 alkoxy-C1-4 alkoxy-C1-4 alkyl, fluoro-C1-4 alkoxy-C1-4 alkyl, (un)substituted CONH2; one of R4a and R4b or one of R5a and R5b = H, C1-7 alkyl, C2-7 alkenyl, Ph or phenyl-C1-4 alkyl and the other = HO, C1-4 alkoxy, oxo-substituted C1-4 alkoxy, C3-7 cycloalkoxy, C3-7 cycloalkyl-C1-4 alkoxy, hydroxy-C1-4 alkoxy, C1-4 alkoxy-C1-4 alkoxy, C1-4 alkoxy-C1-4 alkoxy-C1-4 alkoxy, C3-7 cycloalkoxy-C1-4 alkoxy, C3-7 cycloalkyl-C1-4 alkoxy-C1-4 alkoxy, C1-4 alkylcarbonyloxy, wholly or mainly halogen-substituted C1-4 alkoxy, etc. or in which R4a and R4b or R5a and R5b together are O (oxygen) or are C1-7 alkylidene; Arom = (un)substituted mono- or bicyclic aromatic radical; X = O or NH]. Also disclosed is the use of the compds. I for the prevention and treatment of gastrointestinal illnesses. These compds. are acid pump antagonists (APAs) with less side effects than known APAs and have an antibacterial activity against Helicobacter bacteria with less side effects than known compds. with such activity and NO (nitric oxide) releasing activity, in

which the effect against Helicobacter bacteria is synergistically enhanced on account of the gastric acid inhibiting activity of these compds. They exhibit a marked inhibition of gastric secretion and an excellent gastric and intestinal protective action in warm-blooded animals, in particular humans. Due to gastric and intestinal protection, they are useful for the prevention and treatment of gastrointestinal diseases, in particular of gastrointestinal inflammatory diseases and lesions (e.g. gastric ulcer, peptic ulcer, including peptic ulcer bleeding, duodenal ulcer, gastritis, hyperacidic or medicament-related functional dyspepsia), which can be caused, for example, by microorganisms (e.g. Helicobacter pylori), bacterial toxins, medicaments (e.g. certain antiinflammatories and antirheumatics, such as NSAIDs and COX-inhibitors), chems. (e.g. ethanol), gastric acid or stress situations.

IT **620631-28-9P**

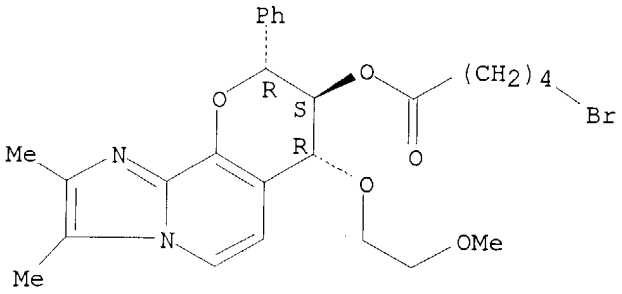
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of nitrosated tricyclic imidazopyridine derivs. as gastric secretion-inhibitor and anti-inflammatory and antibacterial agents for prevention and treatment of gastrointestinal diseases)

RN 620631-28-9 CAPLUS

CN Pentanoic acid, 5-bromo-, (7R,8S,9R)-8,9-dihydro-7-(2-methoxyethoxy)-2,3-dimethyl-9-phenyl-7H-imidazo[1,2-a]pyrano[2,3-c]pyridin-8-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **620631-26-7P**

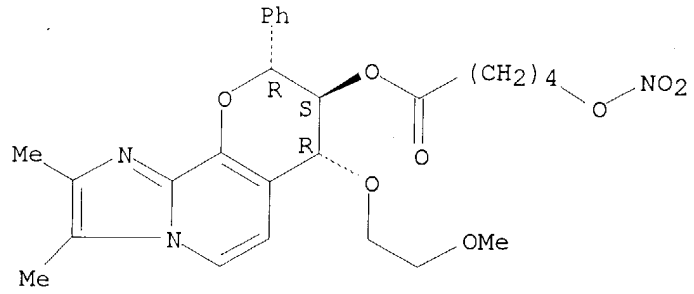
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nitrosated tricyclic imidazopyridine derivs. as gastric secretion-inhibitor and anti-inflammatory and antibacterial agents for prevention and treatment of gastrointestinal diseases)

RN 620631-26-7 CAPLUS

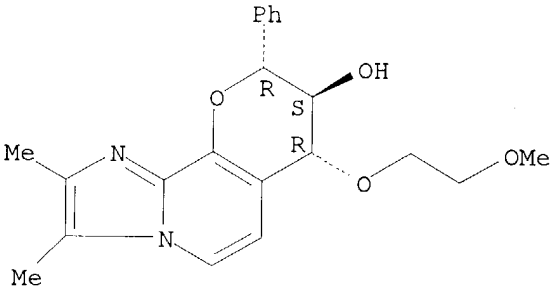
CN Pentanoic acid, 5-(nitrooxy)-, (7R,8S,9R)-8,9-dihydro-7-(2-methoxyethoxy)-2,3-dimethyl-9-phenyl-7H-imidazo[1,2-a]pyrano[2,3-c]pyridin-8-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **362605-90-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; preparation of nitrosated tricyclic imidazopyridine derivs. as gastric secretion-inhibitor and anti-inflammatory and antibacterial agents for prevention and treatment of gastrointestinal diseases)
RN 362605-90-1 CAPLUS
CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridin-8-ol, 8,9-dihydro-7-(2-methoxyethoxy)-2,3-dimethyl-9-phenyl-, (7R,8S,9R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

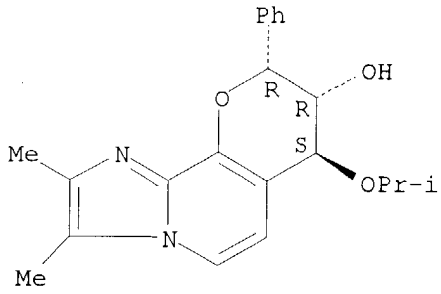


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:417606 CAPLUS
DOCUMENT NUMBER: 139:946
TITLE: Reversible proton pump inhibitors for the treatment of airway disorders
INVENTOR(S): Senn-Bilfinger, Joerg; Kassel, Gerd; Hanauer, Guido; Buhr, Wilm; Simon, Wolfgang-Alexander
PATENT ASSIGNEE(S): Altana Pharma A.-G., Germany
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

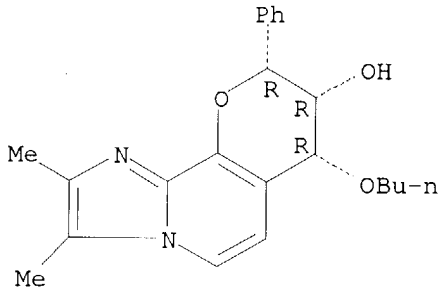
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003043614	A2	20030530	WO 2002-EP12864	20021116
WO 2003043614	A3	20040311		

W: AE, AL, AU, BA, BR, CA, CN, CO, CU, DZ, EC, GE, HR, HU, ID, IL, IN, IS, JP, KR, LT, LV, MA, MK, MX, NO, NZ, PH, PL, RO, SG, SI, TN, UA, US, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM



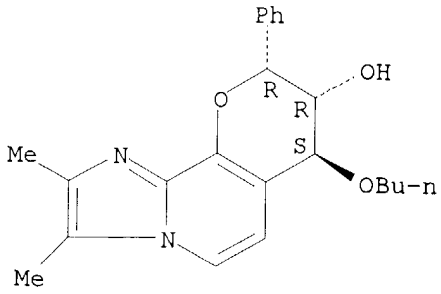
RN 533903-14-9 CAPLUS
CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridin-8-ol, 7-butoxy-8,9-dihydro-2,3-dimethyl-9-phenyl-, (7R,8R,9R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 533903-15-0 CAPLUS
CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridin-8-ol, 7-butoxy-8,9-dihydro-2,3-dimethyl-9-phenyl-, (7S,8R,9R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:730749 CAPLUS
DOCUMENT NUMBER: 135:272986
TITLE: Preparation of imidazopyridine prodrugs for prevention and treatment of gastrointestinal diseases
INVENTOR(S): Simon, Wolfgang-Alexander; Postius, Stefan; Huber, Reinhard; Kromer, Wolfgang; Senn-Bilfinger, Joerg; Buhr, Wilm
PATENT ASSIGNEE(S): Byk Gulden Lomberg Chemische Fabrik G.m.b.H., Germany
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001072756	A1	20011004	WO 2001-EP3514	20010328
W: AE, AL, AU, BA, BG, BR, CA, CN, CO, CZ, EE, GE, HR, HU, ID, IL, IN, JP, KR, LT, LV, MK, MX, NO, NZ, PL, RO, SG, SI, SK, UA, US, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
AU 2001060166	A5	20011008	AU 2001-60166	20010328
EP 1313740	A1	20030528	EP 2001-933769	20010328
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009483	A	20030610	BR 2001-9483	20010328
JP 2003528878	T2	20030930	JP 2001-570665	20010328
NO 2002004662	A	20020927	NO 2002-4662	20020927
US 2003125327	A1	20030703	US 2002-182619	20021001
PRIORITY APPLN. INFO.:			EP 2000-106695 A	20000329
			WO 2001-EP3514 W	20010328

OTHER SOURCE(S): MARPAT 135:272986
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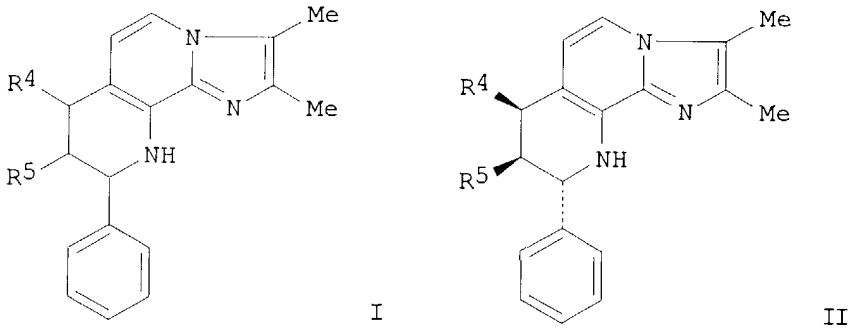
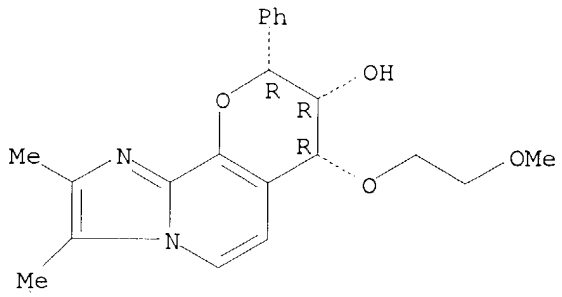


I II

AB Imidazopyridines, such as I [R4, R5 = OH, alkoxy, alkylcarbonyloxy, carbamoyloxy, alkyloxycarbonyloxy, etc.], were prepared for pharmaceutical use as prodrugs for the treatment of gastrointestinal disorders, such as gastrointestinal inflammatory diseases and lesions and gastric acid related diseases. Thus, imidazopyridine II [R4 = O(CH2)2OMe, R5 = COMe] was prepared via O-alkylation of the corresponding diol II (R4 = R5 = OH) with MeO(CH2)2OH followed by acetylation with acetic anhydride. The prepared imidazopyridines were tested for their inhibition of stomach acid secretion of perfused rat stomach stimulated by pentagastrin.

IT **362525-48-2P 362525-50-6P 362525-52-8P 362525-54-0P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of imidazopyridine prodrugs for prevention and treatment of gastrointestinal diseases)

RN 362525-48-2 CAPLUS
CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridin-8-ol, 8,9-dihydro-7-(2-



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:730748 CAPLUS
DOCUMENT NUMBER: 135:272963
TITLE: Preparation of pyrano[2,3-c]imidazo[-1,2-a]pyridine derivatives for the treatment of gastrointestinal disorders
INVENTOR(S): Simon, Wolfgang-alexander; Postius, Stefan; Kromer, Wolfgang; Senn-bilfinger, Joerg; Buhr, Wilm
PATENT ASSIGNEE(S): Byk Gulden Lomberg Chemische Fabrik Gmbh, Germany
SOURCE: PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2001072755	A1	20011004	WO 2001-EP3510		20010328
W: AE, AL, AU, BA, BG, BR, CA, CN, CO, CZ, EE, GE, HR, HU, ID, IL, IN, JP, KR, LT, LV, MK, MX, NO, NZ, PL, RO, SG, SI, SK, UA, US, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR					
BR 2001009589	A	20030204	BR 2001-9589		20010328
EP 1286999	A1	20030305	EP 2001-929463		20010328
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
JP 2003528877	T2	20030930	JP 2001-570664		20010328
NO 2002004572	A	20020924	NO 2002-4572		20020924
US 2003100578	A1	20030529	US 2002-182620		20021001
PRIORITY APPLN. INFO.:			EP 2000-106690	A	20000329
			WO 2001-EP3510	W	20010328

OTHER SOURCE(S): MARPAT 135:272963
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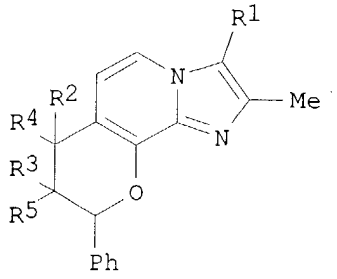

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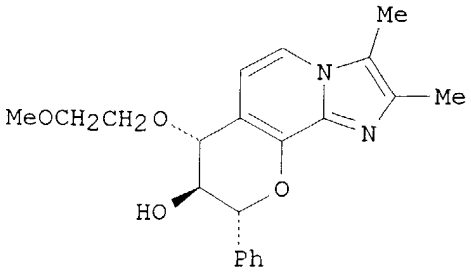


II

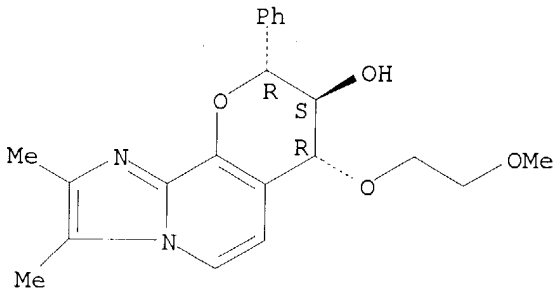
AB Compds. of formula I [R1 = Me, hydroxymethyl; R2-R5 = H, OH, OMe, OEt, OPr, OPr-i, OBu, methoxyethoxy, methoxypropoxy], are suitable for the prevention and treatment of gastrointestinal diseases. Thus, II is prepared and is shown to inhibit acid secretion 100% in rat stomach at 1 μmol/kg.

IT **362605-90-1P 362605-91-2P 362605-92-3P**
362605-93-4P 362605-94-5P 362605-96-7P
362605-97-8P 362605-98-9P 362605-99-0P
362606-00-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrano[2,3-c]imidazo[-1,2-a]pyridine derivs. for treatment of gastrointestinal disorders)

RN 362605-90-1 CAPLUS

CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridin-8-ol, 8,9-dihydro-7-(2-methoxyethoxy)-2,3-dimethyl-9-phenyl-, (7R,8S,9R)- (9CI) (CA INDEX NAME)

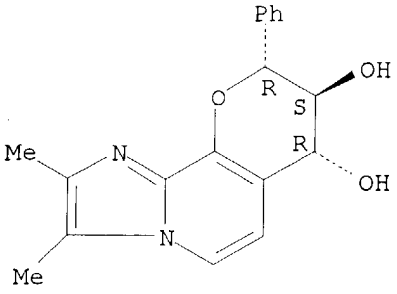
Absolute stereochemistry.



RN 362605-91-2 CAPLUS

CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridin-8-ol, 8,9-dihydro-7-(2-methoxyethoxy)-2,3-dimethyl-9-phenyl-, (7S,8S,9R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

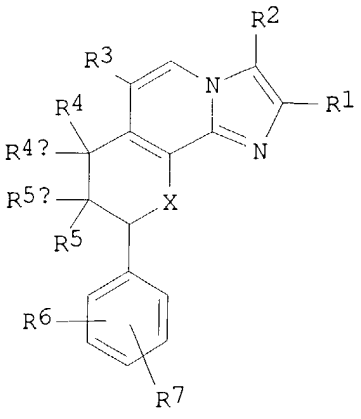


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:730747 CAPLUS
DOCUMENT NUMBER: 135:272962
TITLE: Preparation of alkylated imidazopyridine derivatives
INVENTOR(S): Postius, Stefan; Kromer, Wolfgang; Senn-Bilfinger, Joerg; Buhr, Wilm
PATENT ASSIGNEE(S): BYK Gulden Lomberg Chemische Fabrik GmbH, Germany; Simon, Wolfgang-Alexander; Altana Pharma AG
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001072754	A1	20011004	WO 2001-EP3507	20010328
WO 2001072754	C1	20030213		
WO 2001072754	C2	20040506		
W: AE, AL, AU, BA, BG, BR, CA, CN, CO, CZ, EE, GE, HR, HU, ID, IL, IN, JP, KR, LT, LV, MK, MX, NO, NZ, PL, RO, SG, SI, SK, UA, US, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
AU 2001044225	A5	20011008	AU 2001-44225	20010328
EP 1313739	A1	20030528	EP 2001-917121	20010328
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009542	A	20030610	BR 2001-9542	20010328
JP 2003528876	T2	20030930	JP 2001-570663	20010328
ZA 2002007636	A	20030404	ZA 2002-7636	20020923
NO 2002004597	A	20020925	NO 2002-4597	20020925
US 2003158193	A1	20030821	US 2002-240039	20020927
PRIORITY APPLN. INFO.:			EP 2000-106696 A	20000329
			WO 2001-EP3507 W	20010328

OTHER SOURCE(S): MARPAT 135:272962
GI



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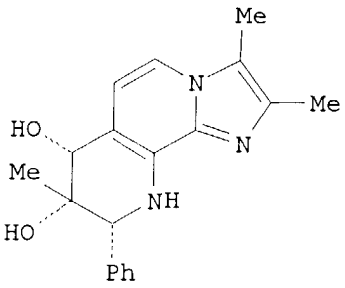


II

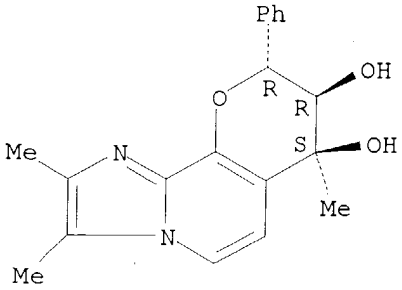
AB The title compds. I (R = H, alkyl, alkoxyalkyl, hydroxyalkyl; R2 = H, alkyl, hydroxyalkyl, halo, alkenyl, alkynyl; R3 = H, halo, F3C, alkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl carbamoyl; one of R4 and R4a is H, alkyl, alkenyl, Ph and the other is HO, alkoxy, alkoxyalkoxy, alkylcarbonyloxy, R4R4a = O, alkylidene; one of R5 and R5a is H, alkyl, alkenyl, Ph and the other is H, HO, alkoxy, alkoxyalkoxy, alkylcarbonyloxy, R5R5a = O, alkylidene; R6 = H, halo, alkyl, alkoxy, alkoxycarbonylamino, F3C; R7 = H, halo, alkyl, alkoxy; X = O, NH) were prepared for the prevention and treatment of gastrointestinal diseases. Thus, (8R9R)-2,3-dimethyl-8-hydroxy-9-phenyl-7,8,9,10-tetrahydroimidazo[1,2-h][1,7]napnthyridin-7-one was methylated with MeI followed by reduction with NaBH4 to give (7R,8R,9R)-2,3,8-trimethyl-7,8-dihydroxy-9-phenyl-7,8,9,10-tetrahydroimidazo[1,2-h][1,7]napnthyridine (II). At 1 μmol/kg (i.v.) II inhibited acid secretion of the perfused rat stomach stimulated pentagastrin by 100%.

IT **364041-33-8P 364041-34-9P 364041-35-0P 364041-36-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of alkylated imidazopyridine derivs.)

RN 364041-33-8 CAPLUS

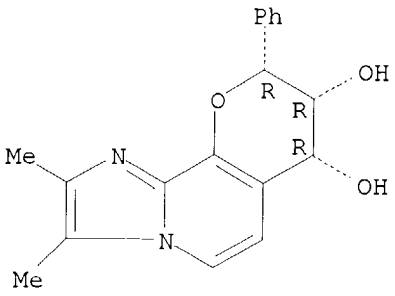
CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridine-7,8-diol, 8,9-dihydro-2,3,7-trimethyl-9-phenyl-, (7S,8R,9R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 364041-34-9 CAPLUS

CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridine-7,8-diol, 8,9-dihydro-2,3,7-trimethyl-9-phenyl-, (7R,8R,9R)- (9CI) (CA INDEX NAME)

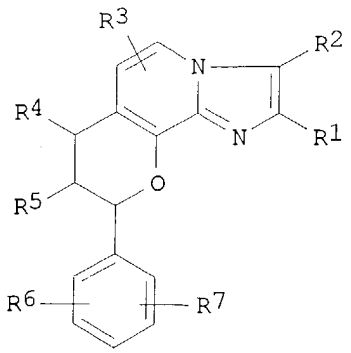


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:795020 CAPLUS
DOCUMENT NUMBER: 130:25073
TITLE: Preparation of fused dihydropyrans for use in the prevention and treatment of gastrointestinal diseases
INVENTOR(S): Grundler, Gerhard; Simon, Wolfgang-alexander; Postius, Stefan; Riedel, Richard; Thibaut, Ulrich; Senn-bilfinger, Jorg
PATENT ASSIGNEE(S): Byk Gulden Lomberg Chemische Fabrik Gmbh, Germany
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9854188	A1	19981203	WO 1998-EP3057	19980523
W: AL, AU, BA, BG, BR, CA, CN, CZ, EE, GE, HU, ID, IL, JP, KR, LT, LV, MK, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, US, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9879154	A1	19981230	AU 1998-79154	19980523
AU 736767	B2	20010802		
EP 984969	A1	20000315	EP 1998-929370	19980523
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9809185	A	20000801	BR 1998-9185	19980523
JP 2001526703	T2	20011218	JP 1999-500211	19980523
ZA 9804463	A	19981130	ZA 1998-4463	19980526
US 6160119	A	20001212	US 1999-423626	19991116
MX 9910900	A	20000430	MX 1999-10900	19991125
PRIORITY APPLN. INFO.:			EP 1997-108574 A	19970528
			WO 1998-EP3057 W	19980523

OTHER SOURCE(S): MARPAT 130:25073
GI



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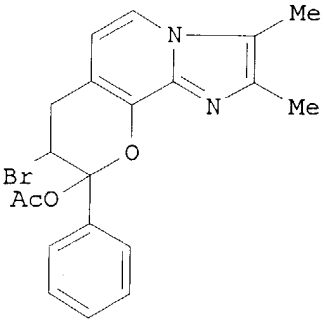


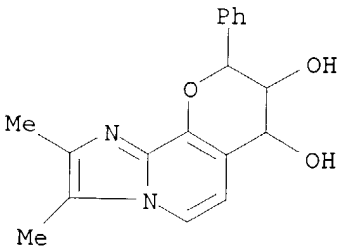
II

AB Fused dihydropyrans I [R1 = alkyl; R2 = alkyl, hydroxyalkyl; R3 = H, halogen; R4 = R5 = H, OH, alkoxy, alkylcarbonyloxy, oxo; R4R5 = fused heterocycle, such as OCH2O or O(CH2)2O; R6 = H, CF3, halogen, alkoxy, alkoxycarbonylamino; R7 = H, halogen, alkyl, alkoxy] were prepared for the prevention and treatment of gastrointestinal diseases. Thus, cis-I [R1 = R2 = Me, R3 = R4 = R6 = R7 = H, R5 = OH] was prepared by reaction of II with Bu3SnH/AIBN in benzene followed by treatment with saturated KOH solution The prepared compds were tested for inhibition of acid secretion on perfused rat stomach.

IT **216159-49-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of fused dihydropyrans for use in the prevention and treatment of gastrointestinal diseases)

RN 216159-49-8 CAPLUS

CN 7H-Imidazo[1,2-a]pyrano[2,3-c]pyridine-7,8-diol, 8,9-dihydro-2,3-dimethyl-9-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'REGISTRY' ENTERED AT 10:17:36 ON 04 SEP 2004
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FILE 'CAPLUS' ENTERED AT 10:18:06 ON 04 SEP 2004

L4 7 S L3

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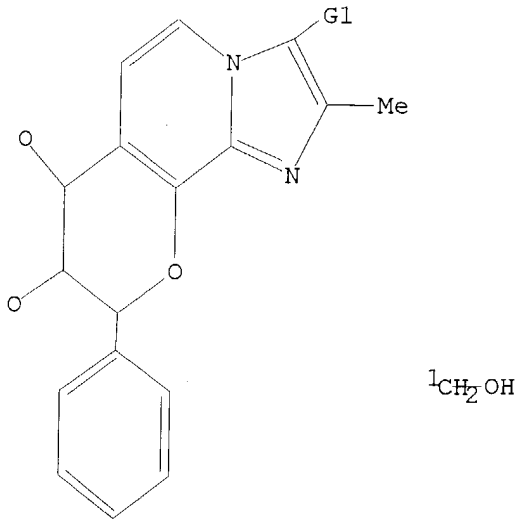

G1 Me,[@1]

Structure attributes must be viewed using STN Express query preparation.

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PALM INTRANET

Day : Saturday
Date: 9/4/2004
Time: 09:40:25

Inventor Name Search Result

Your Search was:

Last Name = SENN-BILFINGER
First Name = J

Application#	Patent#	Status	Date Filed	Title	Inventor
10851092	Not Issued	020	05/24/2004	POLYSUBSTITUTED IMIDAZOPYRIDINES	SENN-BI JORG
10826337	Not Issued	020	04/19/2004	PRODRUGS OF IMIDAZOPYRIDINE DERIVATIVES	SENN-BI JORG
10811496	Not Issued	030	04/01/2004	PYRANO[2,3-C]IMIDAZO[-1,2-A]PYRIDINE DERIVATIVES FOR THE TREATMENT OF GASTROINTESTINAL DISORDERS	SENN-BI JORG
10783512	Not Issued	030	02/23/2004	TETRAHYDROPYRIDOETHERS	SENN-BI JORG
10667524	Not Issued	092	09/23/2003	PROCESS AND INTERMEDIATES FOR THE PREPARATION OF IMIDAZOPYRIDINES	SENN-BI JORG
10485514	Not Issued	020	02/02/2004	ALKYL-SUBSTITUTED IMIDAZOPYRIDINES FOR THE TREATMENT OF GASTROINTESTINAL DISORDERS	SENN-BI JORG
10485512	Not Issued	020	02/02/2004	AMINO-SUBSTITUTED IMIDAZOPYRIDINES FOR THE TREATMENT OF GASTROINTESTIAL DISEASES	SENN-BI JORG
10485418	Not Issued	030	01/30/2004	TRICYCLIC EPOXIDES	SENN-BI JORG
10482483	Not Issued	020	12/31/2003	PROCESS FOR THE PRODUCTION OF 3-PHENYLISOSERINE	SENN-BI JORG
10380624	Not Issued	094	07/02/2003	POLYSUBSTITUTED IMIDAZOPYRIDINES AS GASTRIC SECRETION INHIBITORS	SENN-BI JORG
10240039	Not Issued	061	09/27/2002	ALKYLATED IMIDAZOPYRIDINE DERIVATIVES	SENN-BI JVRG
10182654	6696461	150	10/04/2002	TRICYCLIC IMIDAZOPYRIDINES	SENN-BI JVRG
10182652	6653477	150	09/19/2002	IMIDAZOPYRIDIN-8-ONES	SENN-BI JORG

10182619	Not Issued	161	10/01/2002	PRODRUGS OF IMIDAZOPYRIDINE DERIVATIVES	SENN-BI JVRG
10149290	6716990	150	06/11/2002	PROCESS AND INTERMEDIATES FOR THE PREPARATION OF IMIDAZOPYRIDINES	SENN-BI JORG
10103733	6696460	150	03/25/2002	TETRAHYDROPYRIDOETHERS	SENN-BI JORG
09926267	6503923	150	10/03/2001	HALOALKOXY IMIDAZONAPHTHYRIDINES	SENN-BI JORG
09807970	6384048	150	04/27/2001	IMIDAZONAPHTHYRIDINES	SENN-BI JORG
09582212	6436953	150	07/19/2000	TETRAHYDROPYRIDOETHERS	SENN-BI JORG
09423626	6160119	150	11/16/1999	FUSED DIHYDROPYRANS	SENN-BI JORG
09381617	6197783	150	09/24/1999	TETRAHYDROPYRIDO COMPOUNDS	SENN-BI , JORG
09117139	6096758	150	07/24/1998	3-METHYLIMIDAZOPYRIDINES	SENN-BI , JORG
08776391	Not Issued	161	04/17/1997	ACYLIMIDAZOPYRIDINES	SENN-BI , JORG
08776390	6124313	150	05/16/1997	IMIDAZOPYRIDINE AZOLIDINONES	SENN-BI , JORG
08776349	Not Issued	161	05/05/1997	BENZYLIMIDAZOPYRIDINES	SENN-BI , JORG
08776348	Not Issued	161	01/28/1997	HALOIMIDAZOPYRIDINES	SENN-BI , JORG
08776047	6162809	150	01/17/1997	THIOPYRIDYL COMPOUNDS FOR CONTROLLING HELICOBACTER BACTERIA	SENN-BI , JORG
08765980	5922720	150	01/17/1997	PIPERAZINE THIOPYRIDINES FOR THE CONTROL OF HELICOBACTER BACTERIA	SENN-BI , JORG
08750792	6107312	150	09/16/1997	THIOPYRIDINES FOR USE IN THE CONTROL OF HELICOBACTER BACTERIA	SENN-BI , JORG
08750785	5859030	150	04/10/1997	SUBSTITUTED ARYLALKYLTHIOALKYLTHIOPYRIDINES FOR USE IN THE CONTROL OF HELICOBACTER BACTERIA	SENN-BI , JORG
08652505	5668131	150	05/31/1996	SUBSTITUTED AMINOALKYLAMINOPYRIDINES	SENN-BI , JORG
08537772	5824687	150	10/20/1995	PYRIDINIUM SALTS AND THEIR USE FOR THE CONTROL OF HELICOBACTER	SENN-BI , JORG

				BACTERIA	
08505271	5665730	150	08/15/1995	PHARMACEUTICALLY USEFUL IMIDAZOPYRIDINES	SENN-BI, JORG
08505270	5587389	150	08/15/1995	SUBSTITUTED HETEROARYLAKLYLTHIOPYRIDINES FOR CONTROLLING HELICOBACTER BACTERIA	SENN-BI, JORG
08295681	Not Issued	161	08/25/1994	NOVEL AND KNOWN DISULFIDES AND THEIR USE IN THE CONTROL OF HELICOBACTER BACTERIA	SENN-BI, JORG
07445611	5112834	150	01/16/1990	IMIDAZOLE PROTECTORANT FOR THE STOMACH AND INTESTINE	SENN-BI, JORG
06437883	4472409	250	10/29/1982	2-PYRIDYLMETHYL THIO(SULFINYL)BENZIMIDAZOLES WITH GASTRIC ACID SECRETION INHIBITING EFFECTS	SENN-BI, JORG
06344172	4363816	250	01/29/1982	TRICYCLIC PYRROLES, THEIR COMPOSITIONS AND THEIR USE	SENN-BI, JORG

Inventor Search Completed: No Records to Display.

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